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SEQ ID NO:2

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SEQ ID NO:3- SIM2 long-form Amino Acid Sequence

MKEKSKNAAKTRREKENGFEYELAKLLPLPSAITSQLDKASIIRLTTSYLKMRAVFPEGL
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 TGNISYEYIHPSDHDEMTAVLTAHQPLHHLLQYEIERSFFLRMKCVLAKRNLGTCSG
 YKVIHCSGYLKIRQYMLDMSLYDSCYQIVGLVAVGQSLPPSAITEIKLYSNMFMFRASLD
 LKLIPLDLSRVTEVTGYEPQDLIEKTLYHHVHGCDVFHLRYAHHLLLVKGQVTTKYRLL
 SKRGGWVWVQSYATVVHNSRSSRPHCIVSVNYVLTIEIYKELQLSLEQVSTAKSQDSW
 RTALSTSQETRKLVPKPKNTKMKTKLRTNPYPYPPQYSSFQMDKLECGQLGNWRASPPAS
 AAPPELQPHSESSDLLYTPSYSLPFSYHYGHFPLDHSVFSSKKPMLPAKFGQPQGSPEV
 ARFFLSTLPASGECQWHYANPLVPSSSSPAKNPPEPPANTARHSLVPSYEAAPAAAVRRFG
 EDTAPSPFSCGHYREEPALGPAKAAARQAARDGARLALARAPECCAPPTPEAPGAPAQ
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 HYLGA SVITNGR

SEQ ID NO:4- SIM2 short-form Amino Acid Sequence

MKEKSKNAAKTRREKENGFEYELAKLLPLPSAITSQLDKASIIRLTTSYLKMRAVFPEGLGDA
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 YSLPFSYHYGHFPLDHSVFSSKKPMLPAKFGQPQGS
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SEQ ID NO:10 (472 bp amplified product is underlined)

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CAAGGATCCCCCTTGAGGGTGGCAGCTTTTTCCTGAGCACACTGCCAGCCAGCGGT
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AATCCTCCAGAGCCACCGG 3'

SEQ ID:11

5' ATT CTT GGA CTT CTC CTT CAT CGC 3'

SEQ ID:12

5' GAG AGC AAG AAA GCA CAG CAA GCC 3'

SEQ ID:13

5' CCG AAC GAC ACG AAA GAA CGA GAG 3'

SEQ ID NO:14: Peptide used to raise polyclonal antibody

5' SHGGGWQMETEPSRF 3'

SEQ ID NO:15: Sense RT- PCR primers for SIM2 short-form

5' TGG AGG ACC GCC TTG TCT ACC T 3'

SEQ ID NO: 16: Antisense RT-PCR primers for SIM2 short-form

5' GCC CAA AGC GTG AGG GTT CTG TCT 3'